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PTO/SB/21 (04-04)

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/020,461
	Filing Date	December 14, 2001
	First Named Inventor	M'Saad, Hichem
	Art Unit	1731
	Examiner Name	Hoffmann, John M.
Total Number of Pages in This Submission	Attorney Docket No.	A6123/T43700

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard, copies of seven (7) cited references
Remarks		The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Townsend and Townsend and Crew LLP Patrick M. Boucher Reg. No. 44,037
Signature	<i>Patrick M. Boucher</i>
Date	2004 Nov 14 8

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.	
Typed or printed name	Nicole Wartell
Signature	<i>Nicole Wartell</i>
Date	11/08/2004



FEE TRANSMITTAL for FY 2005		Complete if Known	
Effective 10/01/2004. Patent fees are subject to annual revision.		Application Number	10/020,461
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	December 14, 2001
		First Named Inventor	M'Saad, Hichem
		Examiner Name	Hoffmann, John M.
		Art Unit	1731
TOTAL AMOUNT OF PAYMENT (\$)		180	Attorney Docket No. A6123/T43700

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)																																																																																																																																																																																													
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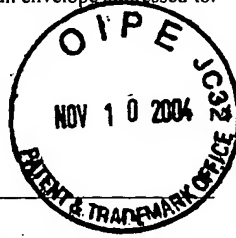
SUBMITTED BY			Complete (if applicable)	
Name (Print/Type)	Patrick M. Boucher	Registration No. (Attorney/Agent)	44,037	Telephone 303-571-4000
Signature		Date	2004 November 8	

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Alexandria, VA 22313-1450

On Nov 8, 2004



PATENT  
Attorney Docket No.: A6123/T43700  
AMAT No.: : 006123/DD/HDP/JW  
TTC Reference No. 016301-043700US

TOWNSEND and TOWNSEND and CREW LLP

By: Nicole Warren  
Nicole Warren

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

HICHEM M'SAAD et al.

Application No.: 10/020,461

Filed: December 14, 2001

For: METHOD OF MANUFACTURING  
AN OPTICAL CORE

Examiner: Hoffmann, John M.

Art Unit: 1731

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT UNDER 37  
CFR §1.97 and §1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

11/10/2004 SSITHB1 00000069 201430 10020461  
01 FC:1806 180.00 DA

Applicant is resubmitting the foreign and non-patent literature references listed on forms PTO/SB/08A and PTO/SB/08B in order to correct any deficiency from previous submissions. The following translations of the abstracts of the foreign references are provided, and constitute the entire understanding of the relevance of the references as understood by the undersigned. No English translation of the entire references is known to be available to any individual specified in 37 C.F.R. §1.56(c).

**1. EP 0 659 902**

Plasma-assisted CVD of a silica thin film on a substrate involves: (a) introducing oxygen and opt. argon into a vacuum chamber, igniting the plasma and then introducing silane; and (b) carrying out the process under the conditions of 40-80 (pref. 60) microbars gas pressure in the chamber, 0-35 (pref. 10) cu.cm/min. argon supply rate, 12-24 (pref. 12) cu.cm/min. silane supply rate, 13-38 (pref. 26-38) cu.cm/min. oxygen supply rate, 200-300 (pref. 200) deg. C substrate temp. and 750- 1100 (pref. 1100) W plasma reactor power. Phosphine may also be introduced into the chamber to dope the silica thin film.

Also claimed in an appts. for carrying out silica thin film CVD.

USE - E.g. in the production of a planar optical waveguide on a silicon substrate or in the mfg. of a flat LCD screen

ADVANTAGE - The process allows deposition of silica containing very little hydrogen (10-100 ppm) at close to 200 deg. C and produces 0.1-10 microns thick deposits in a few minutes.

**2. EP 0 735 160**

In a process for CVD of a silica thin film, for an integrated optical waveguide, from O<sub>2</sub> and SiCl<sub>4</sub> with microwave-generated plasma assistance, the novelty is that: (a) the substrate temp. is maintained at 200-800 (pref. 500-600) deg.C; (b) the CVD chamber pressure is maintained at 1-20 Pa; and (c) the SiCl<sub>4</sub>-contg. reactive gas is injected between the plasma and the substrate within the chamber. Pref. the plasma is created from O<sub>2</sub> and the ractive gas also

contains a carrier gas and opt. one or more dopants such as GeCl<sub>4</sub>, C<sub>2</sub>F<sub>6</sub>, POCl<sub>3</sub> and/or BCl<sub>3</sub>.

Also claimed are: (i) a CVD appts. for carrying out the above process; and (ii) an integrated optical waveguide mfg. method including the above process.

ADVANTAGE - The process produces a thin film with improved thickness and optical index uniformity, while maintaining high deposition rate, a reduced number of process steps and a low process tem. (< 800 deg. C). Additionally, the thin film has acceptable optical attenuation at 1.55 and 1.3 mum, without the need for a supplementary annealing step.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Patrick M. Boucher  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/020,461	
			Filing Date	December 14, 2001	
			First Named Inventor	M'Saad, Hichem	
			Art Unit	1731	
Sheet	1	of	2	Examiner Name	Hoffmann, John M.
				Attorney Docket Number	A6123/T43700

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	A1	US-6,080,683	06-27-2000	Faur et al.	
	A2	US-6,204,200 B1	03-20-2001	Shieh et al.	
	A3				
	A4				
	A5				

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B1	EPO	EP 0 659 902	A1	06-28-1995			<input type="checkbox"/>
	B2	EPO	EP 0 735 160	B1	08-30-2000			<input type="checkbox"/>
	B3							<input type="checkbox"/>

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.  
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Sheet	2	of	2	Attorney Docket Number	A6123/T43700

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	MATTHEWS, MANYALIBO J. et al. "Characterization of phosphosilicate thin films using confocal Raman microscopy" Review of Scientific Instruments, May 2000, pp. 2117-2120, Vol. 71, No. 5, American Institute of Physics.	
	C2	VALETTE, S. et al. "Si-Based Integrated Optics Technologies" Solid State Technology, February 1989, pp. 69-75.	
	C3	VALETTE, S. et al. "State of the art of integrated optics technology at LETI for achieving passive optical components" Journal of Modern Optics, 1988, pp. 993-1005, Vol. 35, No. 6.	

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